E



## Your **Discoveries**Begin with US.

Search: --- Choose Op

| Home | Ordering Info | Quick Order | Cart Tech Support

## Search

**Bacteria** 

Before submitting an order you will be asked to read and accept the terms and conditions of ATCC's <u>Material Transfer Agreement</u> or, in certain cases, an MTA specified by the depositing institution.

Customers in Europe, Australia, Japan, Korea, New Zealand and Taiwan must contact a local distributor for pricing information and to place an order for ATCC cultures and products.

Ducceria					
ATCC Number	r: 27064	Order this item	Price:	\$190.00	
Organism:	Strepto	Streptomyces clavuligerus Higgens and Kastner			
<b>Designations:</b> [NRRL 3585]		585]	Isolation:	soil, South America	
Depositors:	CE Higg	ens			
Biosafety Level:	1		Shipped:	freeze-dried	
Growth Conditions:	ons: extract agar Temperature: 30.0 C				
Permits/Forms: In addition to the MTA mentioned above, other ATCC and/or regulatory permits may be required for the transfer of this ATCC material. Anyone purchasing ATCC material is ultimately responsible for obtaining the permits. Please click here for information regarding the specific requirements for shipment to your location.					
·				Related Products	
Type Strain:	type strain (type strair	ype strain type strain)			
Applications:	carbamoylo 3-carbamo produces 5 produces co produces co produces p	produces cephalosporin antibiotics 7-(5-amino-5-carboxyvaleramido)-3-carbamoyloxymethyl-3-cephem-4-carboxylic acid, and 7-(5-amino-5-carboxyvaleramido)-6-carbamoyloxymethyl-7-methoxy-3-cephem-4-carboxylic acid [58944] produces 5-(2-aminoadipyl)cysteinylvaline synthetase [ACV synthetase] [1759] [1876] produces cephalosporins [58944] produces clavulanic acid [3839] produces penicillin G [benzylpenicillin] [1746] produces penicillin N [synnematin B] [58944]			
References:	using cell-f PubMed: 3 1759: Bald Cephalospo of phospho 2010361 1876: Zhar	876: Zhang J, Demain AL. Regulation of ACV synthetase activity in the beta-lactam iosynthetic pathway of carbon sources and their metabolites. Arch. Microbiol. 158: 364-			

3839: Cole M, et al. Antibiotics. US Patent 4,525,352 dated Jun 25 1985 21082: Perez-Llarena FJ, et al. A regulatory gene (ccaR) required for cephamycin and clavulanic acid production in Strptomyces clavuligerus: amplification results in overproduction of both beta-Lactam compounds. J. Bacteriol. 179: 2053-2059, 1997. PubMed: 9068654

32406: Newton GL, et al. Distribution of thiols in microorganisms: mycothiol is a major thiol in most actinomycetes. J. Bacteriol. 178: 1990-1995, 1996. PubMed: 8606174 36887: Skerman VB, et al. Approved lists of bacterial names. Int. J. Syst. Bacteriol. 30: 225-420, 1980.

38795: Mahro B, Demain AL. In vivo conversion of penicillin N into a cephalosporin type antibiotic by a non-producing mutant of **Streptomyces** clavuligerus. Appl. Microbiol. Biotechnol. 27: 272-275, 1987.

58944: Higgens CE, Kastner RE. **Streptomyces** clavuligerus sp. nov., a beta-lactam antibiotic producer. Int. J. Syst. Bacteriol. 21: 326-331, 1971.

## Notices and Disclaimers

ATCC products are intended for laboratory research purposes only. They are not intended for use in humans.

While ATCC uses reasonable efforts to include accurate and up-to-date information on this site, ATCC makes no warranties or representations as to its accuracy. Citations from scientific literature and patents are provided for informational purposes only. ATCC does not warrant that such information has been confirmed to be accurate.

All prices are listed in U.S. dollars and are subject to change without notice. A discount off the current list price will be applied to most cultures for nonprofit institutions in the United States and Canada. Cultures that are ordered as test tubes or flasks will carry an additional laboratory fee. Fees for permits, shipping, and handling may apply.

You may continue your word search in Bacteria by typing in your search criteria below or returning to the <u>Bacteria menu</u>. To search another product line, choose one from the dropdown box at the top. For complex searches using boolean operators, the following characters must be used: & (for AND), | (for OR), ^ (for AND NOT). An asterisk (\*) is used as the wildcard. For more information please review the <u>Search Help</u>.

Streptomyces & clavuligerus

Word Search

Clear Search

For query options, please read the search help.

## **Home Page Archive**

Home Ordering Info Quick Order Support About ATCC Contact Us
Privacy Policy Terms of Use ATCC MTA

© 2004 American Type Culture Collection (ATCC).
All rights reserved.